

PULATOV, A., CAND TECH SCI, "INVESTIGATION OF THE PROCESS  
OF IRON PLATING WITH COLD ELECTROLYTIC CHLORIDES AS APPLIED  
IN THE REPAIR OF MACHINE PARTS." MOSCOW, 1960. (MIN OF HIGHER  
AND SEC. SPEC ED RSFSR. Krasnoyarsk Inst of Non-Ferrous Metals  
IM M. I. KALININ). (KL, 2-61, 211).

-175-

LI BON-GIR; LYADSKIY, V.B.; PULATOV, A.

Device for cutting holes in test samples designed for  
the MI-type friction machine. Zav.lab. 26 no.6:768-769  
'60. (MIREA 13:7)

1.Tadzhikskiy sel'skokhozyaystvennyy institut.  
(Testing machines)

PULATOV, A.

Cand Tech Sci - (diss) "Study of process of iron plating from cold chloride electrolytes applicable to the repair of machine parts." Moscow, 1961. 25 pp with illustrations; (Ministry of Higher and Secondary Specialist Education RSFSR, Krasnoyarsk Inst of Non-Ferrous Metals imeni M. I. Kalinin); 150 copies; price not given; (KL, 7-61 sup, 244)

ACC NR: AR6035223 (AN) SOURCE CODE: UR/0081/66/000/016/S082/S082

AUTHOR: Makhmudov, D. S.; Pulatov, A.

TITLE: Investigation of antifriction properties of compositions on a caprone base

SOURCE: Ref. zh. Khimiya, Part II, Abs. 16S588

REF SOURCE: Tr. Tadzh. s.-kh. in-ta, v. 7, 1965, 56-70

TOPIC TAGS: caprone, plastic coating, heat expansion, heat conductivity, aluminum powder, friction coefficient, antifriction property, wear resistance

ABSTRACT: A study was made on widening the temperature range for the use of plastic coatings, to increase their resistance to wear, to raise the heat conductance, to decrease water absorption, and to lower the coefficient of thermal expansion of a polyamide by introducing additions such as aluminum powder, talc, graphite, and MoS<sub>2</sub>. A polyamide coating, applied to the surface of metal bearings, creates a strong antifriction layer capable of withstanding high stresses and operating even with insufficient lubrication. The surface of a shaft (roller) contacting a bearing will hardly show any wear. This is explained by the fact that abrasive particles falling

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on friction surface instantly impress into the caprone. The addition of MoS<sub>2</sub> to caprone as a filler will yield a formulation with a minimum friction coefficient<sup>2</sup> and a maximum resistance to wear. V. Kolesnik. [Translation of abstract] [NT]

SUB CODE: 11/

Card 2/2

16.4200

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S/166/60/000/004/010/012XX  
C 111/ C 333

AUTHOR: Pulatov, A.

TITLE: Some Questions Concerning the Trigonometric Polynomials  
Which are Orthogonal With Weight

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-  
matematicheskikh nauk, 1960, No.4, pp.25-30

TEXT: The paper is a continuation of (Ref.3); the notations are  
taken from (Ref.3).

Let  $(\nabla) x_{-n} < x_{-n+1} < \dots < x_{-1} < x_0 < x_1 < \dots$   
 $\dots < x_{n-1} < x_n$  be knots from  $(-\pi, \pi)$ , where  $x_0 = 0$ ,  
 $x_{-k} = -x_k$  ( $k = 1, 2, \dots, n$ ).

Theorem 1: In order that for the knots  $(\nabla)$  and an arbitrary  $T_{2n}(x)$

it holds

$$\int_{-\pi}^{\pi} p(x) T_{2n}(x) dx = \sum_{k=-n}^{n} A_k T_{2n}(x_k),$$

where  $p(x)$  is an arbitrary even weight, it is necessary and suffi-  
cient that the knots  $(\nabla)$  except  $x_0$  are zeros of  $U_n(x)$  with the  
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Some Questions Concerning the Trigonometric Polynomials Which  
are Orthogonal With Weight

weight  $p(x) \sin^2 \frac{x}{2}$ .

Theorem 2: Let the knots from  $[-\pi, \pi]$  be so that

$$(1) \quad x_0 = 0, \quad x_1 = \pi, \quad x_{-1} = x^*, \quad x_{-k} = -x_k \quad (k = 2, 3, \dots, n).$$

If  $p(x)$  is so that  $g(x) = p(x) \cdot \sin^2 \frac{x-x^*}{2}$  is even and the formula

$$\int_{-\pi}^{\pi} p(x) T_{2n}(x) dx = \sum_{k=-n}^{n} A_k T_{2n}(x_k)$$

holds for every polynomial  $T_{2n}$  of at most  $2n$ -th order, then the  
knots (1) for  $k \neq -1$  are zeros of the polynomial  $V_n(x)$  of the  
weight  $g(x)$ .

Let

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$$A_{n+\frac{1}{2}}(x) = \sum_{k=0}^n \left[ \xi_k \cos(k+\frac{1}{2}) x + \eta_k \sin(k+\frac{1}{2}) x \right]$$

be the polynomial investigated by A. Kh. Turetskiy (Ref.6). Its zeros form the matrix

$$x_1^{(1)}, \quad x_2^{(1)}, \quad x_3^{(1)}$$

$$x_1^{(2)}, \quad x_2^{(2)}, \quad x_3^{(2)}, \quad x_4^{(2)}, \quad x_5^{(2)}$$

.....

$$x_1^{(n)}, \quad x_2^{(n)}, \quad \dots \quad \dots \quad \dots \quad \dots \quad x_{2n+1}^{(n)}$$

Let  $f(x) \in C_{2\pi}$ ,  $L_n(x) = \sum_{k=1}^{2n+1} f(x_k^{(n)}) l_k^{(n)}(x)$ , where

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$$l_k^{(n)}(x) = \frac{B_n(x)}{2B'(x_k^{(n)}) \sin \frac{x-x_k^{(n)}}{2}}, \quad B_n(x) = \prod_{k=1}^{2n+1} \sin \frac{x-x_k^{(n)}}{2}.$$

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Theorem 3: If the weight  $p(x)$  is so that all polynomials  $U_n(x)$  and  $V_n(x)$  are bounded in one point,  $x_0 \in [0, 2\pi]$ , then for every  $f(x) \in \text{Lip } \alpha$  for  $\alpha > \frac{1}{2}$  in the point  $x_0$  it holds:

$L_n(x_0) \rightarrow f(x_0)$ . If, however,  $p(x)$  is so that  $U_n(x)$  and  $V_n(x)$  are uniformly bounded on  $[0, 2\pi]$ , then there it is  $\lim_{n \rightarrow \infty} L_n(x_0) = f(x_0)$ .

Theorem 4: If it is  $p(x) \geq m > 0$  on  $[0, 2\pi]$ , then there holds uniformly  $\lim_{n \rightarrow \infty} L_n(x) = f(x)$  for every  $f(x) \in \text{Lip } \alpha$ , where  $\alpha > \frac{1}{2}$ .

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C 111/ C 333

Some Questions Concerning the Trigonometric Polynomials Which are Orthogonal With Weight

There are 7 references: 6 Soviet and 1 American.

ASSOCIATION: Leningradskiy inzhenerno-stroitel'nyy institut  
(Leningrad Civil Engineer Institute)

SUBMITTED: May 18, 1960

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Card 5/5

PULATOV, A.I.

Some problems in the theory of trigonometric polynomials  
orthogonal with respect to a given weight function. Izv.AN  
Uz.SSR. Ser.fiz.-mat. nauk no.1:3-14 '60. (MIRA 13:6)

1. Leningradskiy inzhenerno-stroitel'nyy institut.  
(Polynomials)

PULATOV, A.I.

Some classes of orthonormal systems. Izv. AN Uz. SSR. Ser.fiz...  
mat.nauk no.6:57-64 '58. (MIRA 12:2)

1. Leningradskiy inzhenerno-stroitel'nyy institut.  
(Polynomials)

1

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S/166/60/000/01/001/011

AUTHOR: Pulatov, A.I.TITLE: Some Questions of the Theory of Weighted Orthogonal Trigonometric Polynomials

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh nauk, 1960, Nr 1, pp 3-14 (USSR)

ABSTRACT: In Ref 1 Jackson considered the trigonometric polynomials

$$U_n(x) = \sum_{k=0}^{n-1} (a_k^{(n)} \cos kx + b_k^{(n)} \sin kx) + a_n^{(n)} \cos kx \quad (a_n^{(n)} > 0)$$

$$V_n(x) = \sum_{k=0}^n (c_k^{(n)} \cos kx + d_k^{(n)} \sin kx) \quad (d_n^{(n)} > 0)$$

with the property that

$$\int_{-\pi}^{\pi} p(x) U_n(x) \varphi(x) dx = \int_{-\pi}^{\pi} p(x) V_n(x) \varphi(x) dx = 0$$

$$\int_{-\pi}^{\pi} p(x) [U_n(x)]^2 dx = \int_{-\pi}^{\pi} p(x) [V_n(x)]^2 dx = 1$$

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Some Questions of the Theory of Weighted  
Orthogonal Trigonometric Polynomials

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holds for a given  $2\pi$ -periodic weight function  $p(x)$  and arbitrary trigonometric polynomials  $U_n(x)$ ,  $V_n(x)$  of the order  $\leq n$ .

Theorem 1: If  $p(x)$  is even, then  $U_n(x)$  is even and  $V_n(x)$  is odd.

Theorem 2:  $U_n(x)$  and  $V_n(x)$  have  $2n$  different zeros each on  $[0, 2\pi]$ .

In the conclusions the author points to the connection which consists between the polynomials  $U_n(x)$ ,  $V_n(x)$  and the polynomials

(C)  $p(x)$ , (S)  $p(x)$  with  $p(x) = \sin^2 \frac{x}{2}$  resp.  $= \sin^2 x$  considered by the author in [Ref 2]. Then the author considers the integration polynomial of a given function  $f(x) \in C_{2\pi}$  if the zeros of  $U_n(x)$ ,  $V_n(x)$  are used as knots; conditions for the convergence in the mean are given. Finally the author proposes a quadrature formula

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AUTHOR: Pulatov, A.I.S/166/60/000/006/002/008  
C111/C222

TITLE: On the Series Development of Functions in Terms of Trigonometric Polynomials of Semointegral Orders

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh nauk, 1960, No. 6, pp. 34 - 44

TEXT: Let  $p(x)$  be a weight function on  $[0, 2\pi]$ . By an orthogonalization the author constructs trigonometric polynomials of semointegral orders

$$A_{n+\frac{1}{2}}(x) = \sum_{k=0}^{n-1} \left[ a_k^{(n)} \cos(k + \frac{1}{2})x + b_k^{(n)} \sin(k + \frac{1}{2})x + a_n^{(n)} \cos(n + \frac{1}{2})x \right]$$

$$B_{n+\frac{1}{2}}(x) = \sum_{k=0}^n \left[ c_k^{(n)} \cos(k + \frac{1}{2})x + d_k^{(n)} \sin(k + \frac{1}{2})x \right]$$

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forming on  $[0, 2\pi]$  an orthogonally normed system

$$(1) \quad \left\{ A_{n+\frac{1}{2}}(x), B_{n+\frac{1}{2}}(x) \right\}_{(p(x))}$$

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S/166/60/000/006/002/008  
C111/C222On the Series Development of Functions in Terms of Trigonometric Polynomials  
of Semintegral Orderswith the weight  $p(x)$ .As an analogue to the Christoffel - Darboux formula, the author obtains  
the relation

(13) 
$$k_n(t, x) = \frac{N_n(t, x)}{\cos(t - \mu) - \cos(x - \mu)},$$

where  $\mu$  is an arbitrary constant,

$$\begin{aligned}
 N_n(t, x) = & \alpha_n \left[ A_{n+\frac{1}{2}}(x) A_{n+\frac{3}{2}}(t) - A_{n+\frac{3}{2}}(x) A_{n+\frac{1}{2}}(t) \right] + \\
 & + \beta_n \left[ B_{n+\frac{1}{2}}(x) B_{n+\frac{3}{2}}(t) - B_{n+\frac{3}{2}}(x) B_{n+\frac{1}{2}}(t) \right] + \\
 & + \gamma_n \left[ B_{n+\frac{1}{2}}(x) A_{n+\frac{3}{2}}(t) - A_{n+\frac{3}{2}}(x) B_{n+\frac{1}{2}}(t) \right]
 \end{aligned} \quad \times$$

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On the Series Development of Functions in Terms of Trigonometric Polynomials of Semiintegral Orders

$$+ \delta_n \left[ B_{n+\frac{1}{2}}(x) B_{n+\frac{3}{2}}(t) - B_{n+\frac{3}{2}}(x) B_{n+\frac{1}{2}}(t) \right]$$

and  $\alpha_n, B_n, \gamma_n, \delta_n$  are certain constants, e.g.

$$\alpha_{n-1} = \int_0^{2\pi} p(x) \cos(x - \mu) A_{n+\frac{1}{2}}(x) A_{n-\frac{1}{2}}(x) dx .$$

Let  $f(x)$  be a summable function given on  $[0, 2\pi]$  and X

$$(14) \quad \sum_{k=0}^{\infty} \left[ a_k A_{k+\frac{1}{2}}(x) + b_k B_{k+\frac{1}{2}}(x) \right]$$

be its Fourier series in terms of the polynomials (1), where the Fourier coefficients are defined with consideration of the weight  $p(x)$ , e.g.  
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On the Series Development of Functions in Terms of Trigonometric  
Polynomials of Semiintegral Orders

$$a_k = \int_0^{2\pi} p(t)f(t)A_{k+\frac{1}{2}}(t)dt .$$

Theorem 1 : If for a fixed  $x \in (0, 2\pi)$  the function  $f(t)$  is so that

$$\sin \frac{t}{2} \cdot \frac{\frac{f(t)}{\sin \frac{t}{2}} - \frac{f(x)}{\sin \frac{x}{2}}}{t - x} \in L_p(t) ,$$

and all  $A_{n+\frac{1}{2}}(t)$ ,  $B_{n+\frac{1}{2}}(t)$  are uniformly bounded on  $[0, 2\pi]$  then in the  $\lambda$

point  $x$  it holds :

$$(16) \quad f(x) = \sum_{k=0}^{\infty} \left[ a_k A_{k+\frac{1}{2}}(x) + b_k B_{k+\frac{1}{2}}(x) \right] .$$

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On the Series Development of Functions in Terms of Trigonometric  
Polynomials of Semiintegral Orders

Theorem 2 : Let  $p(t)$  be so that all  $A_{n+\frac{1}{2}}(t)$  and  $B_{n+\frac{1}{2}}(t)$  are uniformly bounded on  $[0, 2\pi]$ . If the function  $f(t)$  continuous on  $(0, 2\pi)$  is so that for a certain  $\delta > 0$  there exists the integral

$$\int_{x-\delta}^{x+\delta} p(t) \frac{|\varphi(t) - \varphi(x)|}{|t - x|} dt$$

and it converges uniformly with respect to  $x$  (for  $t = x$ ), where

$\varphi(t) = \frac{f(t)}{\sin \frac{t}{2}}$  ( $0 < t < 2\pi$ ), then (16) holds uniformly for an arbitrary

$[a, b] \subset (0, 2\pi)$ .

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S/166/60/000/006/002/008  
C111/C222

On the Series Development of Functions in Terms of Trigonometric Polynomials of Semiintegral Orders

The author mentions A.Kh. Turetskiy. There are 2 Soviet references.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut svyazi imeni M.A. Bonch - Bruyevich (Leningrad Eletrotechnical Institute of Communications imeni Bonch - Bruyevich)

SUBMITTED: September 2, 1960

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Card 6/6

PUL'KIN, S.P.

Present state of livestock raising on collective farms of the  
Gorno-Altai Autonomous Province and possibilities for its develop-  
ment. Trudy Biol. inst. Zap.-Sib. fil. AN SSSR no.2:71-81 '56.  
(MIRA 13:10)  
(Gorno-Altai Autonomous Province--Stock and stockbreeding)

PUNGOR, Erno, dr.(Budapest VIII, Muzeum korut 4/9); ZAPP, Erika Eva  
(Budapest VIII, Muzeum korut 4/9)

Contribution to the investigation of the formation of some metal  
complexes through high frequency titration. Acta chimica Hung 25  
no.2:133-143 '60. (EEAI 10:4)

1. Institute of Inorganic and Analytical Chemistry L.Eotvos  
University, Budapest.  
(Thorium) (Metals) (Complex compounds)  
(Ethylenedinitrilotetraacetic acid)

PULATOV, A.I.

Some problems in the theory of trigonometric polynomials  
orthogonal with respect to a given weight function. Izv. AN  
Uz. SSR, Ser. fiz.-mat. nauk no.4:25-30 '60. (MIR 13:9)

1. Leningradskiy inzhenerno-stroitel'nyy institut.  
(Functions, Orthogonal)

PULATOV, A.I.

Expansion of functions into a series according to the trigono-metrical polynomials of the half-integral order. Izv. AN Uz. SSR. Ser.fiz.-mat. nausk no.6:34-44 '60. (MIRA 14:3)

1. Leningradskiy elekrotekhnicheskiy institut svyazi im. M.A. Bonch-Bruyevicha.  
(Functions) (Series)

PULATOV, A. M.

"Postinfluenzal Cerebral Arachnitis and Arachnoencephalitis." Cand Med Sci,  
First Moscow Order of Lenin Medical Inst, 18 Oct 54. (VM, 7 Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

MAVLYANOV, G.A., akademik; MIRZAYEVA, K.Kh.; PULATOV, A.P.

Microelements of natural waters of some areas of Uzbekistan. Dokl.  
AN Uz.SSR 20 no.1:30-31 '63. (MIRA 16:6)

1. Institut gidrogeologii i inzhenernoy geologii AN Uzbekskoy SSR.
2. AN Uzbekskoy SSR (for Mavlyanov).  
(Uzbekistan--Water--Analysis)

PULATOV, A.M.

Clinical aspects and treatment of postinfluenzal optochiasmal arachnitis [with summary in French]. Zhur.nevr. i psikh. 57 no.3: 331-337 '57.  
(MLRA 10:6)

1. Klinika nervnykh bolezney (dir. - prof. Ye.K.Sepp) i Moskovskogo ordena Lenina meditsinskogo instituta.  
(ARACHNOID, diseases,  
arachnitis, opto-chiasmal, post-influenzal (Rus))  
(INFLUENZA, complications,  
arachnitis, opto-chiasmal (Rus))

PULATOV, A.M.

Calcification of the arachnoid as a result of postinfluenzal cerebral  
arachnitis and arachno-encephalitis. Vop.neirokhir. 22 no.5:26-28  
(MIRA 12:1)  
S-0 '58.

1. Kafedra nervnykh bolezney I Moskovskogo ordena Lenina meditsinskogo instituta.

(INFLUENZA, compl.

arachnitis & arachno-encephalitis, arachnoid calcifications as seq. (Rus))

(ARACHNITIS, etiol. & pathogen.

influenza causing arachnitis & arachno-encephalitis, calcifications as seq. (Rus))

(CALCIFICATION,

arachnoid, in influenzal arachnitis & arachno-encephalitis (Rus))

PULATOV, A.M.

Meaning of cerebrospinal fluid pressure in the differential diagnosis  
of focal lesions of the brain, conditioned by a disorder in cerebral  
circulation. Zdrav. Tadzh. 8 no.4:48-50 J1-Ag '61. (MIRA 14:10)  
(BRAIN—WOUNDS AND INJURIES)  
(CEREBROSPINAL FLUID) (BLOOD, CIRCULATION, DISORDERS OF)

PULATOV, A.M., dotsent

Importance of electroencephalography in the differential diagnosis  
of focal lesions of the brain, conditioned by hypertension and  
atherosclerosis. Zdrav. Tadzh. 8 no.5:13-17 S-0 '61. (MIRA 15:1)

1. Kafedra nervnykh bolezney Stalinabadskogo medinstituta im.

Abuali ibni Sino.

(BRAIN DISEASES) (ELECTROENCEPHALOGRAPHY)  
(HYPERTENSION) (ARTERIOSCLEROSIS)

PULATOV, A.M., dotsent

Composition of the cerebrospinal fluid in cerebral insults with a  
tumoral course. Zdrav.Tadzh. 9 no.3:55-58 My-Je '62. (MIRA 15:8)

1. Iz kafedry nervnykh bolezney Tadzhikskogo meditsinskogo  
instituta imeni Abuali ibni Sino.  
(CEREBROSPINAL FLUID) (BRAIN--DISEASES)

PULATOV, A.M., dotsent

Significance of an ophthalmoneurological study in diagnosing  
hypertonic~~s~~ insults with a tumoral course. Zdrav.Tadzh. 9 no.4:  
56-59 Jl-Ag '62. (MIRA 15:11)

1. Kafedra nervnykh bolezney Tadzhikskogo meditsinskogo instituta  
im. Abuali ibni Sino.  
(HYPERTENSION) (BRAIN-DISEASES) (EYE-DISEASES AND DEFECTS)

PULATOV, A.M., dotsent

Address of a disease. Nauka i zhizn' 29 no.4:74-75 Ap '62.  
(MIRA 15:7)

1. Kafedra nervnykh bolezney Tadzhikskogo gosudarstvennogo  
meditsinskogo instituta imeni Abu-Ali Ibn-Siny.  
(BRAIN--DISEASES)

PULATOV, A.M.

Differential diagnostic importance of cerebrospinal fluid data in disorders of the brain's blood supply following a course with tumor syndromes. Zhur. nevr. i psikh. 62 no.4:523-528 '62. (MIRA 15:5)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni N.N.Burdenko (dir. - prof. B.G. Yegorov) AMN SSSR, Moskva.  
(CEREBROVASCULAR DISEASE) (BRAIN--TUMORS)  
(CEREBROSPINAL FLUID)

PULATOV, A.M., dotsent

Neuroophthalmological symptoms of atherosclerotic impulses  
with a tumorous course. Zdrav. Tadzh. 10 no.3:27-30 '63.  
(MIRA 17:4)

• Kafedra nerвnykh bolezney Tadzhikskogo meditsinskogo instituta  
Dokt. med. sci. Sina.

PULATOV, A.M.

Pathological anatomy and the pathogenesis of a hypertensive  
and atherosclerotic insult simulating a grain tumor. Zhur.  
nevr. i psikh. 63 no.4:536-543 '63. (MIRA 17:2)

l. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo  
Znameni institut neurokhirurgii imeni N.N. Burdenko (dir. -  
prof. B.G. Yegorov) AMN SSSR, Moskva.

PULATOV, A.M.

Role of otoneurological tests in the diagnosis of cerebrovascular disorders with clinical symptoms of tumor syndromes. Zhur. nevr. i psikh. vol. 64 no.5:647-653 '64. (MIRA 17:7)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut nevrokhirurgii im. N.N. Burdenko (direktor - prof. S.G. Yegorov) AMN SSSR, Moskva.

11577, 85, prof.

Significance and possibilities of endocrinologic and pathohistopatho-  
logic method of examination in the diagnosis of brain lesions  
with a tumoral character. Drur. nevr. i psich. 65 no. 3-4c 1965.  
(CIA 184)

1. Katedra nervnykh bolezney Tadzhikskogo meditsinskogo instituta  
im. Avitsevny, Fischanbe.

PULATOV, A.T.

Noma in Tajikistan . Dokl.AN Tadzh.SSR no.2:63-68 '52. (MLRA 9:9)

1.Kafedra gospital'noy khirurgii Stalinabadskogo meditsinskogo instituta,  
Stalinbadskaya infektsionnaya bol'nitsa. Predstavлено chlenom-korresponden-  
tom AN Tadzhikskoy SSR N.F.Berezkinym.  
(TAJIKISTAN--STOMATITIS)

BARENBOYM, S.I.; PULATOV, A.T.

Tissue therapy by the use of egg white. Dokl.AN Tadzh.SSR no.4:43-48  
'52. (MIRA 9:9)

1.Gospital'naya khirurgicheskaya klinika Stalinabadskogo meditsinskogo  
instituta. Predstavлено членом-корреспондентом АН Таджикской ССР Н.Ф.  
Березкиным.

(TISSUE EXTRACTS)

PULATOV, A. T. (STALINABAD)

USSR/Medicine - Tissue Therapy

Oct 53

"Tissue Therapy by Means of Egg Albumin," Docent  
S. I. Barenboym and A. T. Pulatov (Stalinabad),  
Chair of Hospital Surgery, Stalinabad Med Inst

Klin Med, Vol 31, No 10, p 87

Subcutaneous implantation of egg albumin, both in  
the raw and boiled form, was successfully used in  
the treatment of trophic ulcers, endarteritis,  
diseases of the bones and joints, and afflictions of  
a suppurative and inflammatory nature. Raw egg  
albumin was resorbed within a few hours after

269T33

implantation; boiled egg albumin was resorbed within  
30-55 days. Doses of 1 to 25g of raw egg albumin  
were implanted into the subcutaneous cellular tissue  
of the thorax 2 to 10 times at intervals of 5 to 10  
days. Amnt of boiled egg albumin used in a single  
application was 0.4 to 6g. Length of time between  
1st and 2nd implantation of the boiled egg albumin  
was 30-55 days. Implantation of boiled egg albumin  
produced the best therapeutic effects.

PILATOV, A. T.

"Data on the Study of Noma and its Sequelae (According to  
Data of the Stalinabad Infectious Hospital and the Hospital Surgical  
Clinic of the Stalinabad Medical Institute)." Cand Med Sci, Stalina-  
bad State Medical Inst, Stalinabad, 1955. (KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions (15)

REF ID : 1/1

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610007-6

USAR/Human and Animal Morphology, Pathology in man

3-5

Abs Year : Ref Zhar - Bl.1., No 20, 1953, No 9287a

Author : Fulutov A.T.

Inst : "

Title : Pathology Related to Malfunction of Galacto-Esteric Ducts

Org Pub : Sibirskaya. Endokrinolog. 1956, No 6, 24-27

Abstract : Four cases are presented of impaired involution of the galacto-esteric duct with the formation of trichilem fistula and Meckel's diverticulum.

Scans : 1/3

PULATOV, A.T.

Survey of surgical methods for the treatment of mitral insufficiency. Grud. khir. l no.4:111-121 Jl-Ag '59. (MIRA 15:3)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. -- prof. V.V. Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. Adres avtora: Moskva, B. Pirogovskaya ul.d.2/6, 1-y Moskovskiy meditsinskiy institut,  
Kafedra operativnoy khirurgii.

(MITRAL VALVE--SURGERY)

PULATOV, A.T., dotsent

Herniotomy in old age. Zdrav.Tadzh. 6 no.4:36-39 Jl-Ag '59.  
(MIRA 12:11)  
1. Iz kufedry gospital'noy khirurgii (zav. - prof.N.Z.Monakov)  
Stalinabadskogo medinstituta im. Abuali ibni Sino.  
(HERNIA)

PULATOV, A.T., dotsent

Functional state of the adrenal cortex in surgical diseases;  
survey of Soviet and foreign literature. Vest.khir. no.5:118-  
126 '62. (MIRA 15:11)

1. Iz kliniki obshchey khirurgii (zav. - prof. A.V. Smirnov)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo insti-  
tuta.

(ADRENAL GLANDS) (SURGERY, OPERATIVE)

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APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610007-6"

PULATOV, A.T., dotsent

Significance of the determination of 17-ketosteroids in surgical patients. Vest.khir. 89 no.8:43-49 Ag '62. (MIRA 15:10)

1. Iz i-y kliniki obshchey khirurgii (zav. - prof. A.V.Smirnov)  
Leningradskogo sanitarno-gigienicheskogo meditsinskogo instituta.  
(OSTEROIDS) (SURGERY, OPERATIVE)

PULATOV, A.T., dotsent

Eosinophil count as an index of the function of the adrenal cortex. Vest.khir. 89 no.7:103-107 Jl '62. (MIR: 15:8)

1. Iz I kliniki obshchey khirurgii (zav. - prof. A.V. Smirnov)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(EOSINOPHILES) (ADRENAL CORTEX)

SMIRNOV, A.V., zasluzhennyj dayatel' nauki, prof. (Leningrad, nabereshnaya  
Karpovki, PULATOV, A.T., dotsent d.13, kv.16)

Functional state of the adrenal cortex in patients with mechanical  
jaundice of different etiology in connection with surgical inter-  
vention. Vest. khir. 91 no.9:65-72 S'63. (MIRA 17:4)

1. Iz 1-y kliniki obshchey khirurgii (zav. - prof. A.V. Smirnov)  
Leningradskogo sanitarno-gigienicheskogo meditsinskogo instituta.

SHANIN, Yu.N., kand.med. nauk (Leningrad, Zverinskaya ul., d.17-a,  
kv.14); PULATOV, A.T., dotsent; YURCHENKO, M.V.

Function of the adrenal cortex in surgery of the thoracic  
organs under automatically controlled anesthesia. Vest.  
khir. 70 no.6:109-113 Je'63 (MIRA 16:12)

1. Iz 1-y kliniki obshchey khirurgii (zav. - prof. A.V.  
Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsin-  
skogo instituta, kafedry anesteziologii (nachal'nik -prof.  
P.A.Kupriyanov [deceased]) i 1-y gospital'ney khirurgiches-  
koy kliniki (Nachal'nik - prof. I.S.Kolesnikov) Voyenno-meditsin-  
skoy ordena Lenina akademii imeni S.M. Kirova.

PULATOV, A.T., dotsent (Leningrad, 8-15, ul. Saltykova-Shchedrina, d.43-b,  
kv.20)

Use of ACTH and corticosteroid hormones in surgical intervention. Vest.khir. 90 no.3:117-125 Mr'63. (MIRA 16:10)

1. Iz 1-y kliniki obshchey khirurgii (zav. - prof. A.V.Smirnov)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo in-  
stituta.

(ADRENOCORTICAL HORMONES) (SURGERY, OPERATIVE)  
(ACTH)

PULATOV, A.T., dotsent

ACTH test in surgical patients. Vest. khir, 93 no.8:53-57 Ag '64.  
(MIRA 18:7)

1. Iz l-y kliniki obshchey khirurgii (zav. - prof. A.V.Smirnov)  
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

PULATOV, A.T., dotsent

Principles of ACTH and conticosteroid therapy in pre- and post-operative care. Khirurgiia 40 no.7:117-120 Jl '64.

(MIRA 18.2)

1. Klinika obshchey khirurgii No.1 (zav. - zasluzhennyy deyatel' nauki prof. A.V. Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

PULATOV, DADAZHAN PULATOVICH

Fizicheskaya Geografiya Tadzhikistana. Stalinabad, Uchpedgiz  
Tadzhikskoy SSR, 1961. 113 p. illus., graphs, maps, tables.

Prilozheniya k uchebniky K.F. Stroyeva "Fizicheskaya Geografiya SSSR",  
Moscow, 1957.

Pulatov, Dadazhan Pulatovich

Fizicheskaya geografiya Tadzhikistana. Stalinabad, Uchpedgiz Tadzhikskoy SSR, 1961.

113 p. illus., graphs, maps, tables.

Prilozheniya k uchebniky K.F. Stroyeva

"Fizicheskaya geografiya SSSR", Moscow, 1957.

Translated from the original Tadzhik.

Khachaturyan, L. A.: "The ultrastructural picture of the basal laminar deposit in chronic enteritis".  
Moscow, 1980. Candidate of Medical Sciences.  
(Dissertation for the degree of Candidate of Medical Sciences)

SC: mining catastrophes, Inc. Ltr, 1 Oct 55

22330  
S/167/61/000/001/003/004  
A104/A133

9,7/60

AUTHORS: Islamov, S. I., Pulatov, I.

TITLE: Alterations in the block scheme of the cyclic operation of the control device of the "Ural" Computer

PERIODICAL: Izvestiya Akademii nauk UzSSR. Seriya tekhnicheskikh nauk, no. 1, 1961, 58 - 66

TEXT: The author describes some modifications carried out in the "Ural" electric computer which performs computations with fixed or floating points. In the latter case the computer carries out the function with mantissa and number order. An example demonstrates the adjustments of cyclic operation block ensuring that the number of cycles of complete and incomplete variable addresses during one operation should be  $\frac{n_1}{2} + i = n_2 + i$  or  $\frac{n_1}{2} = n_2$  (1)

X

The content of the cycle counter is divided by two and is transcribed onto the instruction register. On binary computers the operation is simple since the division is performed automatically by transcribing the entire cycle counter content onto the instruction register and shifting to the right by one digit. For this

Card 1/6 ;

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A104/A133

Alteration in...

purpose the new circuit uses special 11K-30 transcription valves; the "K-th" output of the cycle counter digit is connected to the "K-1" input of the instruction register digit. Thus, the cycle of complete addresses interspersed with a variable instruction on incomplete addresses is carried out with a variable instruction on complete addresses, i.e. 0100 25 0200  
1101 -02 4600 etc

In this case Formula (1) is  $\frac{n_1}{2} = n_2$  and therefore:  $n_1 = 2n_2$ . That means  $n_2$  is multiplied by two and transcribed to the cyclic operation block, whereas the contents of cycles  $2n_2$  and of instruction registers are added up without division by two, at variable instructions on complete addresses. On binary registers the multiplication by two is performed by shifting the register content to the left by one digit with the help of the instruction register block. On the instruction register the input of one digit is connected to the output of the next. Shifting is completed by a pulse of  $3.5\mu\text{sec}$  on the reset-shift input of binary counters with the help of an  $\Phi - 6$  ( $F - 6$ ) cell and  $13 - C_1 344(13 - Sp3 - 44)$  output. The further progress of the operation is analogous to the afore-described. Advantages of the new system are the economy of magnetic barrel cells, simplicity and near standardization. At present, modified "Ural" computers are being used at the Vycheslitel'nyy tsentr AN UzSSR (Computer Center of the Academy of Sciences UzSSR)

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Alteration in...

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A104/A133

According to the new system in cycles with mixed addresses and repeated instructions the value n remains unchanged for all instructions and the addresses may be complete or incomplete. The completeness characteristic of value n retains its effect. The functional circuit of the modified block of cyclic operation is shown in Figures 2 and 3 [Abstracter's note: in Figure 2 entries have been corrected to read: amplifier Y - 06 (U - 06) controls direct transcription valves 11K-30. On Sb 2 - 31 (Sb 2 - 31) "0"-11 p. Pz. K. should read "0"-12 p. Pz. k]. Figure 4 shows the computation process involving the determination of the number of maximum absolute value. As noted, there is no entry on the cycle counter from the 12th instruction register digit onwards. However, for problems with cyclic operation 25 2000 where there should be 4000 in the address area after shifting along the instruction register, blocking of the 12th digit would lead to errors as here it represents a number. Such errors are prevented by 14 - 24 (Sp 4 - 24); In view of these results 14 - 3 - 24 (14 - Sp 3 - 24) which had controlled the conversion of the 1st digit of the cyclic operation counter was removed, whereas 14 - 2K - 15 (14 - 2K - 15) and 14 - Sb2 - 17 (14 - Sb2 - 17) were converted into 14 - K - 15 and 14 - C - 17 (14 - Sb - 17). There are 4 figures and 1 table.

Institute of Mathematics in UZ. Romanian Academy

Card 3X of the Academy of Sciences 66-5512

ISLAMOV, S.I.; PULATOV, I.

Changes in the system of the cyclic operation unit of the control device in the "Ural" machine. Izv.AN Uz.SSR.Ser.technicheskaya. N.1:50-66 '61. (MITA 14:2)

1. Institut matematiki im.V.J.Romanovskogo AN UzSSR.  
(Electronic calculating machines)

PULATOV, M.A.

Modern modifications in sewing up the stump of the bronchus in  
tuberculosis. Zdrav. Tadzh. 8 no. 2:48-50 '61. (MIRA 14:4)

1. Iz khirurgicheskoy kliniki (zav. klinikoy chlen-korrespondent  
AMN professor L.K. Bogush) Instituta tuberkuleza AMN SSSR  
(direktor chlen-korrespondent AMN professor N.A. Shmelev).  
(TUBERCULOSIS)

PULATOV, N.

Change in oiliness of cotton seeds as related to the time of  
seed harvesting. Uzb. biol. zhur. 9 no.2:37-38 '65.

(MIRA 12:5)

1. Ferganskiy gosudarstvennyy pedagogicheskiy institut.

PULATOV, R.P.; KAMILOV, I.K.

Pharmacology of complex compounds of cobalt salts with some  
vitamins. Uzb. biol. zhur. 7 no.6:84-86 '63.  
(MIRA 17:6)  
1. Tashkentskiy farmatsevticheskiy institut.

PULATOV, R.P., dotsent

Experience with occupational therapy in sanatoriums. Probl. tub.  
41 no.11:56-59 '63. (MIRA 17:9)

1. Iz Namanganskogo filiala Nauchno-issledovatel'skogo instituta  
tuberkuleza.

L 25273-66

ACC NR: AP6017768

SOURCE CODE: UR/0242/65/000/003/0018/0019  
13  
8

AUTHOR: Pulatov, R. P. (Docent); Yermishina, R. Ye.

ORG: Namangan Branch, Uzbek Scientific Research Institute of Tuberculosis (Namangan-skiy filial Uzbekskogo nauchno-issledovatel'skogo instituta tuberkuleza)

TITLE: Changes in human peripheral blood <sup>22</sup> with age (preliminary report)

SOURCE: AN UzSSR. Meditsinskiy zhurnal, no. 3, 1965, 18-19

TOPIC TAGS: blood, man

ABSTRACT: The authors investigated the peripheral blood of 86 healthy indigenous inhabitants of Andizhan oblast in Uzbekistan ranging in age from 60 to 101 years. They counted the number of erythrocytes, leukocytes, and thrombocytes and determined the ESR, hemoglobin concentration, leukocyte formula, time of blood coagulation, prothrombin time and index. The subjects, for the most part, were on the largely vegetarian diet typical of elderly persons living in the Ferghana valley. Tentatively, the authors found that with age the leukocyte count decreases. There is relative eosinophilia and absolute neutropenia with a sharp drop in the number of immature forms, especially in those over 80. Blood coagulability also increases with age, as shown by the marked acceleration in clotting time and high prothrombin index.

SUB CODE: 06 / SUBM DATE: 10Nov63

Card 1/1 BWG

PULATOV, S.

Determining the physical and mechanical properties of delinted cotton-seed. Trudy TIIIMSKH no.19:149-169 '62. (MIRA 17:1)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610007-6

PULATOV, Sh.K., inzh.

Modernized E-352A excavator. Stroi. i dor. mash. 9 no.9:3-4  
(MIRA 17:11)  
S'64.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610007-6"

ARONOV, D.A.; ABLYAYEV, Sh.A.; PULATOV, U.U.; SHAMASOV, R.G.

Theory of the adsorption effect on surfaces of semiconductors  
and gels induced by ionizing irradiation. Izv. AN Uz.SSR.  
Ser. fiz.-mat. nauk 9 no.5:63-70 '65. (MIRA 18:11)

1. Fiziko-tehnicheskiy institut AN UzSSR. Submitted February  
23, 1965.

L 9967-65 EWT(m)/EPF(c)/EPF(n)-2/T Pr-4/Pu-4 AEDC(b)/AFWL/SSD/AS(mp)-2/  
Pb-4 GG/MLK

ACCESSION NR: AT4046908

S/0000/64/000/000/0023/0029

AUTHOR: Starodubtsev, S. V.; Ablyayev, Sh.A.; Pulatov, U.U.; Rasulev, U. Kh.

TITLE: Mass spectrometric investigation of the adsorption and desorption of gas mixtures on the surface of irradiated and non-irradiated synthetic zeolites

SOURCE: AN UzSSR. Institut yadernoy fiziki. Radiatsionnyye effekty v kondensirovannyykh sredakh (Radiation effects in condensed media). Tashkent, Izd-vo Nauka UzSSR, 1964, 23-29

TOPIC TAGS: gas adsorption, gas desorption, nitrogen, adsorption, oxygen adsorption, irradiated zeolite, synthetic zeolite

ABSTRACT: The adsorption and desorption processes of a mixture of  $N_2$  and  $O_2$  on the surfaces of irradiated and non-irradiated zeolites were studied by means of a type MKh-1302 mass-spectrometer. The experimental set-up is described. Zeolite samples were subjected to thermovacuum treatment at 350-400°C, irradiated with the necessary  $\gamma$ -ray dose, and exposed to the gas mixtures, in which the partial pressure of the components was changed from 20% to 80%. Adsorption was performed at -196°C and desorption was observed during a gradual increase in temperature. Kinetic curves of the adsorption of oxygen and nitrogen on irradiated and non-irradiated zeolites were plotted.

Card 1/4

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ACCESSION NR: AT4046908

D.

Irradiated zeolite CaA5R at 200 are given in Fig. 1 of the Enclosure. It is clear from this figure that the increase in surface adsorption of oxygen due to Irradiation is much larger than for nitrogen. A better representation of the influence of irradiation on the adsorption of oxygen can be obtained by means of the relationship.

$$\frac{\Delta P}{P_0} = \frac{P_0 - P_t}{P_0}$$

where  $P_0$  is the initial partial pressure of a gas and  $P_t$  is the partial pressure of the same gas after establishment of an adsorption equilibrium. It was found that the ratio

$$\left( \frac{\Delta P}{P_0} \right)_{O_2} / \left( \frac{\Delta P}{P_0} \right)_{N}$$

changes from a value of 0.7 for non-irradiated zeolite to 1.5-2.5 for irradiated samples. The desorption curves of nitrogen and oxygen for irradiated and non-irradiated samples are also shown. It is concluded that: a) nitrogen molecules are more firmly bound to the zeolite surface; b) nitrogen is adsorbed faster than oxygen on the surface of non-irradiated zeolite; c) Irradiation increases the adsorption of oxygen considerably, and d) an intense desorption of  $CO_2$  and  $CO$  is observed at temperatures above 350-400°C. Orig. art. has: 9 figures and 1 table.

Card 2/4

L 9967-65

ACCESSION NR: AT4046908

ASSOCIATION: Institut yadernoy fiziki AN UzSSR (Nuclear Physics Institute,  
AN UzSSR)

SUBMITTED: 01Feb64

ENCL: 01

SUB CODE: GP,OP

NO REF Sov: 008

OTHER: 000

Card 3/4

L 9967-65  
ACCESSION NR: AT4046908

ENCLOSURE: 01

O

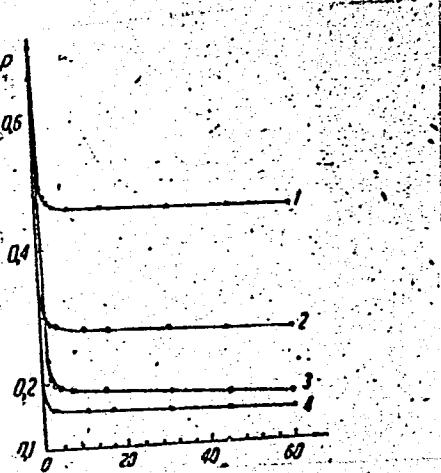


Fig. 1. Kinetic adsorption curves of: nitrogen on  
irradiated (1) and non-irradiated (4) zeolite;  
oxygen on irradiated (2) and non-irradiated (3)  
zeolite.

Ordinate = partial pressure of gas;  
abscissa = time in minutes.

Card 4/4

ABLYAYEV, Sh.A.; PULATOV, U.U.

Effect of the porosity of silica gels on the extent of their induced adsorption. Izv. AN Uz. SSR. Ser. fiz.-mat. nauk 8 no.2: 90-91 '64.

Cathodoluminescence of silica gels. Ibid.:91-93 (MIRA 17:9)

1. Fiziko-tehnicheskiy institut AN UzSSR.

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610007-6

PULAT V. P. T.

General description of operations in the region of Central  
Central Asia. Map. size, no. 301-01-1-2.

(MIA 08:6)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343610007-6"

PULATOV, N.Yu.; VASIL'YEV, I.Ya.

Mechanical soil sampler for taking deep samples of undisturbed  
soil in order to determine its bulk density. Vop. gidr. no.24:86-  
89 '65. (MIRA 18:6)

MAMADZHANOV, U.D.; PULATOV, Z.; RAKHIMOV, A.K.

Using light-weight cement grouting and methods for reducing the  
permeability of the stone from this grouting. Burenie no. 2:9-11  
'64. (MIRA 18:5)

1. Institut geologii i razrabotki neftyanykh i gazonovykh  
mestorozhdeniy AN UzSSR i trest "Karshineftegazrazvedka".

PULATOVA, M.K.

Study of the spectra of the electronic paramagnetic resonance  
of irradiated polypeptide films and proteins in relation to the  
temperature. Biofizika 7 no.4:402-406 '62. (MIRA 15:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.  
(PROTEINS—SPECTRA) (PEPTIDES—SPECTRA)  
(PARAMAGNETIC RESONANCE AND RELAXATION)

RAZUMOVA, L.L.; GUN TSU-SYUN' [Kung Tsu-hstn]; KAYUSHIN, L.P.; PYLATOVA, M.K.

Studying various structural forms of the protein myosin by the  
electron paramagnetic resonance method. Dokl. AN SSSR 146 no.5:  
1197-1200 0 '62. (MIRA 15:10)

1. Institut bioiogicheskoy fiziki AN SSSR. Predstavleno  
akademikom V.N.Kondrat'yevym.  
(MYOSINS) (PARAMAGNETIC RESONANCE AND RELAXATION)

GURBOVY, V.I., dotsent; PVLATCOVA, M.T., dotsent

Second Asiatic Congress of Obstetricians and Gynecologists.  
Akush. i gin. 32 no.5:122-124 5-0 '62.

(MIRA 17:11)

PULATOVA, M.T.

Better organization of public health service for women and children.  
Zdrav. Tadzh. 8 no.4:3-6 Jl-Ag '61. (MIRA 14:10)

1. Zamestitej ministra zdravookhraneniya Tadzhikskoy SSR.  
(PUBLIC HEALTH)

AID P - 3953

Subject : USSR/Hydr. Eng.

Card 1/1 Pub. 35 - 17/19

Authors : Pulatov, N. Yu. and M. I. Ibragimov, Eng.

Title : Quick method of establishing the moisture content of soil.

Periodical : Gidr. stroi., 7, 43-44, 1955

Abstract : A device of the "061" type, used at the construction of the Ortotokoy dam erected by the hydraulic fill method, is described in detail. This device permits quickly establishing the moisture content in the soil. A detail description of the device and its operation is given.

Institution : None

Submitted : No date

PULATOV, R.P., dotsent

Problem of longevity. Med.zhur.Uzb. no.7:3-7 Jl '58.

(MIRA 13:6)

1. Iz Andizhanskogo gosudarstvennogo meditsinskogo instituta.  
(LONGEVITY)

Илья Пулатов

PULATOV, U.Yu., kand.tekhn.nauk

Method for determining the compactibility of coarsely fragmented  
earth. Gidr.stroi. 27 no.2:47-48 F '58. (MIRA 11:2)  
(Soil mechanics) (Earthwork)

PULATOV, R.P., dots.

Experience in health educational work at the Andizhan Medical Institute,  
Sov. zdrav. 17 no.11:10-11 N'58 (MIRA 11:10)

1. Zav. kafedroy patofiziologii Andizhanskogo meditsinskogo instituta.  
(HEALTH EDUCATION,  
in Russia (Rus))

SMIRNOVA, O. I., dotsent; PULATOV, R. P., dotsent

Reactive changes in the body in pulmonary tuberculosis during  
the use of chemotherapy under conditions of a measured work  
regimen. Probl. tub. 40 no.4:40-50 '62. (MIRA 15:6)

1. Iz Namanganskogo filiala (dir. - dotsent R. P. Pulatov)  
Instituta tuberkuleza Ministerstva zdravookhraneniya Uzbekskoy  
SSR (dir. - prof. Sh. A. Alimov)

(TUBERCULOSIS) (CHEMOTHERAPY)  
(OCCUPATIONAL THERAPY)

PULATOV, N.P., dotsent

Final normal erythrocyte sedimentation in normal persons. Med. zhur.  
(MLA 15:2)  
Uzb. no. 3:22-23 Mr '60.

1. Iz Andizhanskogo gosudarstvennogo meditsinskogo instituta (dir. -  
zasluzhennyj vrach UzSSR U.A. Alimov).  
(BLOOD SEDIMENTATION)

PULATOV, S., Cand Tech Sci -- (diss) "Inquiry into the ~~possibility~~  
of spool Sowing Devices of Cotton ~~sowing machines~~" 22 pages  
Tashkent, 1958. (Min of Agric. USSR; Tashkent Inst of  
Engineers of Irrigation and Mechanization), 160 copies  
(KL, 41-58, 121)

PULATOVA, R.V.

Method for the separation of biotite monomineralic samples from  
rocks. Izv. AN Kazakh. SSR. Ser. geol. nauk no.5:103-109 '63.  
(MIRA 17:1)

1. Institut geologicheskikh nauk AN KazSSR, Alma-Ata.

S/109/63/008/002/019/028  
D413/D308

AUTHORS: Starodubtsev, S.V., Ablyayev, Sh.A., Yermatov, S.Ye.  
and Pulatov, U.

TITLE: The effect of radio-frequency discharges on the adsorption properties of silica gel

PERIODICAL: Radiotekhnika i elektronika, v. 8, no. 2, 1963,  
528-330

TEXT: The authors have earlier (Dokl. AN SSSR, v. 129, no. 1, 1959, 72; Izv. AN UzSSR, Ser. fiz.-mat. nauk, no. 6, 1960, 93; etc) shown the effect of  $\gamma$ -radiation in enhancing the adsorption of various gases by silica-gel: since this surface effect is known to be due to slow electrons arising from ionization processes, it should also be produced in an RF discharge. Samples of KCK (KSK) industrial silica-gel were exposed after baking to an RF field of intensity 45 - 60 v cm<sup>-1</sup> derived from an JNFE-3B (LGYe-3B) equipment with nominal power output 2 kw and working frequency 25-30 mc/s; the adsorption of air, H<sub>2</sub>, CH<sub>4</sub>, CO<sub>2</sub> and He after various exposure

Card 1/2

The effect of radio-frequency ...  
times was measured by manometer tubes. The resulting curves show  
increases in adsorption closely similar to those obtained by the  
action of  $\gamma$ -radiation, ranging from zero for He to a saturation  
value of  $0.4 \mu$  mole g<sup>-1</sup> for H<sub>2</sub>. The induced adsorption disappears  
completely on baking at 350°C. Isotherms are also given for the  
induced adsorption of dry air at 0°, 30° and 60°C over the range  
 $10^{-1} - 10^{-3}$  mm Hg. It is suggested that the effect is due to remov-  
al of part of the OH-groups normally covering the surface of the sil-  
ica-gel. There are 3 figures.

S/109/63/008/002/019/028  
D413/D308

SUBMITTED: March 19, 1962

Card 2/2

ACCESSION NR: AP4014691

S/0217/64/009/001/0P33/0039

AUTHOR: Pulatova, M. K.; Azizova, O. A.

TITLE: Nature of EPR spectra of amino acids and proteins exposed to gamma-irradiation and light

SOURCE: Biofizika, v. 9, no. 1, 1964, 33-39

TOPIC TAGS: EPR spectrum, gamma-irradiation, light exposure effect, amino acid EPR spectrum, protein EPR spectrum, S-S bond, free radical, protein denaturation, peptide linkage, (SS-SH) groups

ABSTRACT: This study investigates the effect of light on free radicals in gamma-irradiated amino acids and proteins by analyzing EPR spectra. Amino acids and proteins containing varying amounts of sulfur were gamma-irradiated (10 million rads, 77°K, 10<sup>-3</sup> mm mercury column) and EPR spectra were measured (3.2 cm wavelength, magnetic field 465 kc) in a temperature range of 77 to 300°K. The amino acids and proteins were then exposed to a DRSh-1000 mercury lamp at 77°K and EPR spectra were measured again. Findings show that the paramagnetic centers of gamma-irradiated amino acids and polypeptides containing sulfur represent free radicals at 77°K with the unpaired

Cardl/3

ACCESSION NR: AP4014691

electron attached to the sulfur atom. The hyperfine structure of the EPR spectra for such compounds is produced by the hydrogen nuclei localized near the sulfur atom. The free radical R-(S...S)<sup>+</sup>-R common to cystine, cysteine, and glutathione forms at room temperature. Light exposure of gamma-irradiated amino acids containing sulfur at 77°K leads to a significant reduction in number of free radicals responsible for the EPR "cystine signal" (120-e). EPR spectra of gamma-irradiated proteins at 77°K represent the sum of a single and a triple signal. The latter signal is produced by sulfur-bearing amino acid residue in the protein. Light exposure of gamma-irradiated proteins intensifies the "cystine" part of the EPR signal by changing the electron density distribution of the protein molecule and leads to opening of the S-S bonds. The authors "express their gratitude to L. P. Kayushin for guidance in carrying out the research and to Ya. S. Lebedev for participation in the discussion of results." Orig. art. has: 9 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow  
(Institute of Biological Physics AN SSSR)

Card 2/3

ACCESSION NR: AP4014691

SUBMITTED: 20Jul63

DATE ACQ: 27Feb64

ENCL: 00

SUB CODE: LS

NO REF Sov: 005

OTHER: 004

Card 3/3

PULATOVA, T.P.; KHAZANOVICH, R.L.

Alkaloid content of some Lagochilus species and on the nature  
of lagochiline. Apt. delo 11 no.6:29-32 N-D 62 (MIRA 17:7)

1. Tashkentskiy farmatsevticheskiy institut.

STARODUBTSEV, S.V., akademik; ABLYAYEV, Sh.A.; YERMATOV, S.Ye.; PULATOV, U.U.

Change in the adsorbing capacity of silica gel induced by  
high-frequency discharges. Izv. AN Uz. SSR. Ser. fiz.-mat.  
(MIRA 16:12)  
nauk no.6:77-78 '61.

1. Fiziko-tehnicheskiy institut AN UzSSR. 2. Akademiya nauk  
UzSSR (for Starodubtsev).

S/0166/64/000/002/0090/0091

ACCESSION NR: AP4038425

AUTHOR: Ablyayev, Sh. A.; Pulatov, U. U.

TITLE: The effect of the degree of silicagel porosity on the value of its induced adsorption

SOURCE: AN UESSR. Izv. Seriya fiziko-matematicheskikh nauk, no.2, 1964, 90-91

TOPIC TAGS: silicagel, silicagel porosity, pulverized silicagel, induced adsorption, nitrogen, KSK silicagel, adsorption gas

ABSTRACT: Based on the method described by the authors in a previous paper (Radiatsionnye effekty v tverdykh telakh, Izd-vo AN UzSSR, Tashkent, 11, 1963) the authors studied the effects of pore dimension and pulverization of various types of industrial silicagels. The adsorption gas used in the experimental effort was nitrogen. The authors found that the value of specific adsorption is at a maximum in the case of KSK silicagel, which has the largest pores ( $\sim 100\text{\AA}$ ). The greater the silicagel specific surface, the less the value of the induced adsorption per unit of working surface. The greater the geometrical surface the larger the surface subjected to direct bombardment by slow electrons; i.e., the number of active centers on the surface of the adsorbent will increase. Orig. art. has: 1 table, and 2 figures.

Card 1/2

ACCESSION NR: AF4038425

ASSOCIATION: Fiziko-tehnicheskiy institut AN UzSSR (Physical Engineering Institute,  
Academy of Sciences, UzSSR)

SUBMITTED: 17Oct63

DATE ACQ: 26Jun64

ENCL: 00

SUB CODE: PH, MM

NO REF Sov: 003

OTHER: 000

Card 2/2

ACCESSION NR: AP4038426

S/0166/64/000/002/0091/0093

AUTHOR: Ablyayev, Sh. A. Pulatov, U. U.

TITLE: Concerning silicagel cathodoluminescence

SOURCE: AN UzSSR. Izv. Seriya fiziko-matematicheskikh nauk, no.2, 1964, 91-93

TOPIC TAGS: silicagel, silicagel cathodoluminescence, luminescence intensity, high frequency discharge, attenuation curve

ABSTRACT: The purpose of this paper is to study the cathodoluminescence of silicagel occurs as an effect of high-frequency discharges on its surface. The authors obtained a spectrum of cathodoluminescence and plotted an attenuation curve after illumination at room temperature. The relationship of luminescence intensity to the discharge duration was determined. KSK industrial, pulverized silicagels, having an average granule size of 0.5 to 1mm were used in the experiment. Based on the experimental results, the authors conclude that the maximum intensity range is produced by high-frequency discharge activity within 500-550 millimicrons; the attenuation process lasts for approximately 10 sec. After meeting the described conditions, the attenuation curve can be expressed as the sum of two exponential curves. Orig. art. has: 2 figures.

Card 1/2

ACCESSION NR: AP4038426

ASSOCIATION: Fiziko-tehnicheskiy institut AN UzSSR (Physical Engineering Institute,  
AN UzSSR)

SUBMITTED: 27Jan64

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Card 2/2